

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device for controlling an internal combustion engine with a variable valve system wherein, while a piston of the engine descends during an expansion stroke in a cylinder of the engine, an intake valve is opened by the variable valve system for the intake valve such that intake air is supplied into the cylinder from the engine intake system, and pressure in the cylinder is lowered by opening an exhaust valve at an initial stage just after compression top dead center of the expansion stroke by the variable valve system for the exhaust valve and is then closed while in the expansion stroke before said intake valve is opened.

2. (Previously Presented) The device for controlling an internal combustion engine according to claim 1 wherein, said intake valve is opened when secondary air is required in an exhaust system of the engine.

3. (Previously Presented) The device for controlling an internal combustion engine according to claim 1 wherein, when the pressure in the cylinder becomes lower than atmospheric pressure, said intake valve is opened by said variable valve system for the intake valve such that the intake air is supplied into the cylinder from an air intake system of the engine.

4. (Canceled)

5. (Previously Presented) The device for controlling an internal combustion engine according to claim 1 wherein, said exhaust valve opened by said variable valve system causes exhaust of the exhaust gas from the cylinder, and said intake valve opened by said variable valve system causes supply of the intake air into the cylinder, such that operation of the engine can be changed from a 4-stroke operation to a 2-stroke operation.

6. (Previously Amended) The device for controlling an internal combustion engine according to claim 1 wherein, said variable valve system is an electromagnetic actuator.

7. (Previously Amended) The device for controlling an internal combustion engine according to claim 2 wherein, when the pressure in the cylinder becomes lower than atmospheric pressure, said intake valve is opened by said variable valve system for the intake valve such that the intake air is supplied into the cylinder from an air intake system of the engine.

8. (Canceled)

9. (Previously Presented) The device for controlling an internal combustion engine according to claim 2 wherein, said variable valve system is an electromagnetic actuator.

10. (Previously Presented) The device for controlling an internal combustion engine according to claim 3 wherein, said variable valve system is an electromagnetic actuator.

11. (Canceled)

12. (Previously Amended) The device for controlling an internal combustion engine according to claim 5 wherein, said variable valve system is an electromagnetic actuator.

13. (New) The device for controlling an internal combustion engine according to claim 5, wherein while in the 2-stroke operation a valve overlap period is provided and the exhaust valve is closed after the intake valve is opened.